

WHAT IS CLAIMED IS:

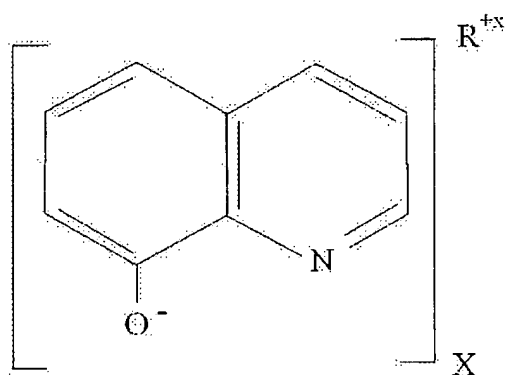
- 1 1. A method of developing latent fingerprints deposited on a porous substrate comprising:
 - a) providing an 8-quinolinol complex solution;
 - b) applying the solution to the porous substrate containing the latent fingerprint whereby the soluble complex is adsorbed onto the oily surface of the latent print and precipitates thereon; and
 - 5 c) removing the unadsorbed solution from the substrate to allow the precipitate to highlight the latent image.
- 1 2. The method of claim 1 wherein step (c) comprises rinsing the substrate with water.
3. The method of claim 1 wherein the 8-quinolinol is complexed with a metal salt.
- 1 4. The method of claim 3 wherein the transition metal is selected from one or more of the group consisting of Fe, Li, Ca, Sr, Cr, Ni, Co, Al, Zr, Zn, Mg, Mo, Ti, V, Mn and Ga.
- 1 5. The method of claim 1 wherein the 8-quinoline is complexed with ammonium or an amino acid reagent.
- 1 6. The method of claim 2 wherein the substrate is paper.
- 1 7. A method of developing latent fingerprints deposited on a porous substrate comprising:
 - a) providing a solution of 8-hydroxquinoline or a derivative thereof and a sufficient amount of a metal salt to form a complexed product;
 - b) applying the solution to the porous substrate containing the latent image
 - 5 whereby the soluble complex is adsorbed onto the oily surface of the latent print and precipitates thereon; and
 - c) removing the unadsorbed solution from the substrate to allow the precipitates to highlight the latent image.

1 8. The method of claim 7 wherein step (c) comprises rinsing the substrate with water.

1 9. The method of claim 8 wherein the metal is selected from one or more of the group
consisting of Fe, Li, Ca, Sr, Cr, Ni, Co, Al, Zr, Zn, Mg, Mo, Ti, V, Mn and Ga.

1 10. A method of developing latent fingerprints deposited on a porous substrate comprising:

a) providing a solution of a 8-hydroxyquinoline or derivative and a
complexing reagent characterized by the following structure:



15 where X = valence of the complexed ion

where R = positively charged complexed ion which forms a colorant or
fluorescent compound with 8-hydroxyquinoline and its derivatives

b) applying the solution to the porous substrate containing the latent
fingerprint whereby the soluble complex is adsorbed onto the oily surface of the
latent print and precipitates thereon; and

20 c) removing the unadsorbed solution from the substrate to allow the
precipitate to highlight the latent image.

- 1 11. The method of claim 10 wherein the 8-quinolinol is complexed with a metal salt.
- 1 12. The method of claim 11 wherein the metal is selected from one or more of the group
consisting of Fe, Li, Ca, Sr, Cr, Ni, Co, Al, Zr, Zn, Mg, Mo, Ti, V, Mn and Ga.
- 1 13. The method of claim 10 wherein the 8-quinoline is complexed with ammonium or an
amino acid reagent.